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## THE UO-186 TUBE IN PLACE OF A HOT-CATHODE RECTIFIER

A. Pashayev Kazakh, Azerbaydzhan SSR

Our TU-500 receiving public address center is supplied from an electric power network which has a voltage varying constantly from 150 to 240 volts. For this reason, the VG-129 hot-cathode rectifiers used to burn out very quickly, and had to be replaced about every 3 days.

To eliminate this difficulty, the hot-cathode rectifiers were replaced with UO-186 tubes. For this purpose, 11 additional turns were added to the secondary filament winding of the transformer, and the grid pins of the U0-186 tubes were sawed off. Six of these tubes were employed in place of the two VG-129 hot-cathode rectifiers (Two parallel banks of three tubes each for full-wave rectification). On the plates of the amplifier tubes 1,200 volts were used. After this substitution, the apparatus began to operate very well. Normal audibility was obtained and fluctuations in the line voltage had almost no effect on the operation of the radio center. One set of tubes will last from 6 to 9 months.

The installation has been operating on these tubes since May 1947. The last set of UO-186 tubes was installed in May 1949 and is still in operation.

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